KUPRIYENKO, I.V.

Preventing washouts. Put' i put.khoz. 8 no.4:32-33 '64. (MIRA 17:4)

1. Nachal'nik mosoispytatel'noy stantsii Donetskoy dorogi.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8"

Effect of six-axle cars on the track. Put' i put. khoz. no.5:
27 My '59. (MIRA 12:8)

1. Nachal nik mostoispytatelnoy stantsii, g. Stalino, Donetskoy dorogi.

(Railroads--Cars) (Railroads--Track)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8"

# KUPRIYENKO, I.V.

TO THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE PARTY

Replacement of bridge spans. Put'i put. hoz. 5 no.5:36 by '61. (MIRA 14:6)

1. Nachal'nik mesteispytatel'ney stantsii Denetskoy deregi, g. Staline. (Railread bridges)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8"

DANILOV, N.S. (Novosibirsk); KUPRIYENKO, P.L. (Novosibirsk);
MALININ, N.I. (Novosibirsk); RABOTNOV, Yu.N. (Novosibirsk);
SHUBIN, I.A. (Novosibirsk)

Program-controlled machine for investigating deformations of plastics under complexly stressed state conditions. Izv. AN SSSR. Mekh. i mashinostr. no.6:20-24 N-D '63. (MIRA 17:1)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8"

#### KUPRIYEHKOV, V.A.

Mechanization of maintenance operations. Put: 1 put.khoz. 4 no.11: 8-11 N '60. (MIRA 13:12)

1. Starshiy dorozhnyy master po mekhanizatsii, at. Klin, Oktyabriskoy dorogi.

(Railroads -- Maintenance and repair)

With experience comes also resolution. Starsh.-serzh. no.4(7):
6 Ap '61. (Naval education)

KUPRIYEVICH, V.A. [Kupriievych, V.A.]; YEGOROV, Yu.P. [IEhorov, IU.P.];
DYADYUSHA, G.G. [Diadiusha, H.H.]

Electron interaction of allyl derivatives of elements of the LV group. Dop. AN URSR no.4:508-510 '64. (MIRA 17:5)

1. Institut khimii polimerov i monomerov AN UkrSSR. Predstavleno akademikom AN UkrSSR A.I.Brodskim [Brods'kyi, O.I.].

DYADYUSHA, G.G.; KUPRIYEVICH, V.A.

Theory of the malf-consistent field for the state with open shells. Teore.. i eksper. khim. 1 no.3:406-408 My-Je '65. (MIRA 18;9)

1. Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR, Kiyev.

KUPRIYEVICH, V.A. [Kupriievych, V.A.]

er of emergracion restriction and emerge. Describe

Mean energy in the generalized Hartree-Fock method, Dop. AN URSR no.8:1028-1030 '65. (MIRA 18:8)

1. Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR.

#### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8

Treary of a self-consistent field in multiportiqued and approximation. Bop. AN URSE no. Polydownless 165. (MIRA 18:5)

1. Institut khimit vysokomolekniyarnyka soyesinenty AN Uk; SSR.

#### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8

BETEKHIH, A.G.[dorwased]; GOLIEOT, A.S.; FEBR C. V.S.; FWA V.
G.A.; KARGAZHI, A.T..; EFFUEROV, V.V.; EULOV, I.G.;
EMAGANYAH, I.G.; STROIA, I.A.; TEVERHOV, I.M.;
CHEKHOVICH, Ye.D.; EVIRHOV, V.I., retsenzent

[Course in sineral deposits] Kars resteroshiemil pelemykh
lakopromykh. Izd.3., jerer. i doj. lorvva, Redva, Pena.
559 p. (Mina 18:7)

ACC NR. AT6014848

(N)

SOURCE CODE: UR/2531/66/000/188/0003/0010

AUTHOR: Kolokolov, V.P.; Barkalova, K.N.; Kuprovich, V.V.; Kutyavin, V.A.; Simonova, R.I.

ORG: None

中で

÷.,

TITLE: On a more precise method of mapping the number of lightning flashes

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 188, 1966. Atmosphernoye elektrichestvo (Atmospheric electricty), 3-10

TOPIC TAGS: atmospheric electricity, thunderstorm activity, lightning, lightning

ABSTRACT: The paper discusses improved methods for mapping the geographical density of lightning flashes. Lightning discharge counters with a known effective registration radius (defined as the maximum one within which all discharges are registered), were used. An expression for the effective radius, derived for wide band (2-20 kc) counters from a previously published (referenced) paper of L.G. Makhotkin, was too sensitive to its coefficient's errors; therefore, simultaneous registration with a narrow band (56-62 kc) counter was employed. Thunderstorm activity was expressed as the monthly number of discharges per 100 km² of the recording station vicinity area. Thunderstorm activity over the North Atlantic has been also evaluated from British MGG and MGS (unreferenced) radiolocation data. Dependence of thunderstorm activity, in

Card 1/2

form of number of derstorms per mobilished. The tal temperature in given. Orig. a	BDGL#file-Hmero		willihars.	Comments	on further	product o	ont are
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#### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8

"Heat and Temperature Conductivity of Alloys of Silicon and Iron." Cand Tech Sci. Ural Folytechnic Inst james 5. in Firov. In ill ther Education 1938, Swerdlovsk, 1955. (EL, No. 10, No. 59)

So: Sum. No. 670, 29 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

KUPROUSKEY B. G.

USSR/Statistical Physics - Heat

D-4

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: Referat Zhur - Fizika, No 5, 1957, 11454

Author

Abs Jour

Kuprovskiy, B.B., Gel'd, P.V.

Inst

Ural' Polytechnic Institute

Ticle

: Isotherms of Heat Conduction of Silicon and Its Alloys

with Iron at High Temperatures.

Orig Pub

: Fiz. metallov i metallovedeniye, 1956, 3, No 1, 132-183

Abstract

An investigation was made of alloys, containing one to 98.8% by weight of silicon in the temperature range  $t=100-950^{\circ}$ . The method of radial flow in a thick-walled cylinder was used. The errors did not exceed 7%. For commercial silicon (98.8% Si) the authors obtain an empirical equation for the temperature dependence of the heat conduction coefficient:  $\lambda=0.222-0.368\times 10^{-3}$  t 0.219 x 10<sup>-6</sup> t<sub>2</sub> -0.0018 x 10<sup>5</sup> t<sup>-2</sup>. Extrapolation to 10<sup>o</sup>

Card 1/2

USSR/Statistical Physics - Heat

D-4

Abs Jour : Ref Zhur - Fizika, No 5, 1957, 11454

is in agreement with data of other authors. A plot of the isotherms  $\lambda$  of the alloys Fe-Si is given. A characteristic feature of the plot is the presence of a minimum at approximately 45 to 65° Fe, with the minimum value of  $\lambda$  being quite small (at  $100^\circ$  it is 8 -- 10 times smaller that the  $\lambda$  of iron. Introducing small amounts of the second component reduces  $\lambda$  sharply. The effect of addition of silim con is explained by the formation of  $\infty$ -solutions, and the effect of additions of iron, are both attributed essentially to the appearance of intermetallic Leboite phase.

Card 2/2

#### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8

Kaprovikiy, 13 13

AID P - 4427

Subject

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: USSR/Heat Engineering

Card 1/1

Pub. 110-a - 7/13

Authors

Gel'd, P. V., Dr. Tech. Sci., B. B. Kuprovskiy and N. N. Serebrennikov, Kands. Tech. Sci. Ural Poly-

technical Institute.

Title

: Rate of temperature raise in steel at high temperatures.

Periodical

Teploenergetika, 6, 45-51, Je 1956

Abstract

Research on thermal capacity, conductivity and coefficient of expansion of steel containing from 1 to 4.4% Si at up to 1000°C is reported, with the aid of mathematical analyses. Results reportedly proved that thermal conductivity and temperature rate diminish with the increase of Si content in the steel. Five tables, 4 diagrams. Sixteen Russian references, 1935-1955;

2 English 1941, 1946; 5 German 1900-1935.

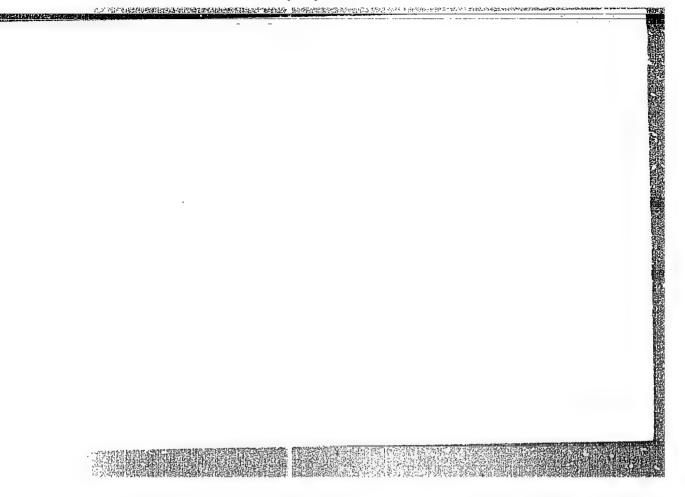
Institution:

None

Submitted : No date

CIA-RDP86-00513R000927610017-8" APPROVED FOR RELEASE: 08/23/2000

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8



137-58-2-3888

KUPROLSKIY, B.B.

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 230 (USSR)

AUTHORS: Kuprovskiy, B.B., Gel'd, P.V.

TITLE: Thermal Conductivity of Silicon-iron Alloys at High Temp-

eratures (Teploprovodnost' splavov kremniya s zhelezom

pri vysokikh temperaturakh)

PERIODICAL: V sb.: Fiz-khim.osnovy proiz-va stali. Moscow, AN

SSSR, 1957, pp 370-386. Diskus., pp 408-409

ABSTRACT: The thermal conductivity & was measured by a fixed ab-

solute method employing a radial current in a thick-walled specimen. The specimens were disk shaped and had a central aperture for an internal heater, and 4 apertures along a diameter for the measurement of the temperature. The apparatus consisted of a cylindrical furnace, within which the specimens to be investigated were inserted. The furnace was insulated at its ends by a series of ceramic disks and supplementary end heaters. An internal heater that created a heat

flow was inserted through the central hole in the specimens.  $\lambda$  was calculated by means of the equation  $\lambda \approx 0.00835 \, \text{IU/(t_1-t_2)}$ .

Card 1/2 where I and U are the current and the voltage in the internal

Thermal Conductivity of Silicon-iron (cont.)

heater, and t1 and t2 are the temperatures at different distances from the center of the specimen (disk). The maximum error by this method is about 7%. An experimental formula for the dependence of  $\lambda$  upon temperature for technical Si (98.8%) and for various phases of the Fe-Si system in the 100-950°C interval is presented. Extrapolation of the experimental data to 10° yields a value  $\lambda_{Si} = 0.220 \text{ cal/cm.sec.}^{\circ}$ , which is in general in good agreement with the literature data, if it be considered that the values of  $\lambda$ for technical and pure Si differ by a factor of 1.3. The  $\lambda$  isotherms of the Fe-Si system drop rapidly when up to 4% Si is added to the Fe. It is assumed that this is due to a change in the nature of the bond between the Fe and Si atoms as they pass the 4% Si content level. On the Si side, the 2 isotherms also drop on addition of Fe, but the decline is not as sharp. In the middle range of concentrations,  $\lambda$  is low and aries comparatively little with composition. This is due to a diminution in the concentration of the valence electrons, in connection with which fact  $\lambda$  is determined primarily by the phononic constituent. Investigation of the 2 of iron containing flake and spheroidal graphite (G) showed that in the case of flake G the A of iron increased as the G content increased. Iron with spheroidal G has a lower A and is virtually independent of the G content. This is explained by the fact that in the case of spheroidal G the latter is localized and, therefore, does not have a significant effect upon the  $\lambda$  of iron. Bibliography: 12 references. L.B. Card 2/2

Iron-silicon alloys—Heat conductivity--Measurement 2. Iron-silicon alloys
 Heat conductivity--Test results

### "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927610017-8

SOV/137-58-8-17634

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8. p 205 (USSR)

Kuprovskiy, B. B., Gel'd, P. V. AUTHORS:

Heat Conductivity of Alloys of Silicon with Iron (Teploprovodnost TITLE.

splavov kremniya s zhelezom pri vysokikh temperaturakh)

PERIODICAL: Tr. Ural'skogo politekhn. in-ta, 1957, Nr 72, pp 121-133

Ref. RZhMet, 1958, Nr 2, abstract 3888 ABSTRACT:

1. Iron-silicon alloys-Heat transfer

Card 1/1

CIA-RDP86-00513R000927610017-8" APPROVED FOR RELEASE: 08/23/2000

29649

\$/146/61/004/004/013/015 D201/D306

245500

Sukhanov, Ye.L., and Kuprovskiy, B.B.

TITLE

AUTHORS:

Comparison of stationary and non-stationary methods of determining thermal conductivity of nickel-chromium

alloys

Izvestiya vysshikh uchebnykh zavedeniy. Priboro-PERIODICAL:

stroyeniye, v. 4, no. 4, 1961, 98 - 100

TEXT: In order to determine the usefulness of regular heat regime methods for determining the \*hermal properties of metals at high temperatures, the authors compare two basic methods of analysis: Stationary and non-stationary methods. Both methods were used to investigate the chromium stainless steel 2X13 (2Khl3) and nichrome type X2OH80 (Kh2ON8O). The chemical composition of the two alloys is given. The thermal conductivity 2 of the investigated alloys was determined by the absolute method of radial thermal flux in a thick walled cylinder at the laboratories of the Department of Physics of the Polytechnic Institute, Uralsk. The experimental arrangements and methods are described by B.B. Kuprovskiy and P.V. Gelid (Ref. 1: Card 1/3

27647 5/146/61/004/004/013/015

Comparison of stationary and non-statio-..D201/D306

Sbornik izd. AN SSSR, 1957). All samples were prepared in the forms of 68 mm dia. discs. Two of them had a height of 25 mm. 8 thermal insulation discs (each 10 mm high) were placed on each side of the disc under investigation. The samples were heated by platinum heat. ing elements, placed centrally in the disc in an aperture of 12 mm dia. The discs had also 4 apertures (4 mm dia.) for the thermocoup. ies. The measurements were carried out between 100 and 900°C (one arrangement between 100.500°C, the other 500.900°C). The greatest possible relative error in determining  $\lambda$  by the stationary method aid not exceed 7%. The two-point method of D.V. Budrin and E.L. Sukhanov (Ref. 2: Metallurgiya, 1959, no. 2) was used to evaluate the temperature conductivity a of the analyzed alloys. Results ob tained by the two methods were compared by comparing the values of thermal conductivity. For the non-stationary method the latter was determined from  $\lambda = a \circ \gamma_{20} \circ c$ . The density at 2000  $\gamma_{20}$  and the true specific thermal capacity c were determined by experiment. The results obtained by the two methods are in good agreement with each other (deviations of the measured values from the averaging curves

did not exceed 7 %), so that both methods may be recommended for

Card 2/3

29649 **S/**146/61/004/004/013/015 D201/D306

Comparison of stationary and non-...

rapid determination of thermal properties of metals at high temperature. This article was recommended by the Kafedra metallurgiches-kikh pechey (Department of Metallurigcal Furnaces). There are i table, 1 figure and 2 Soviet-bloc references.

ASSOCIATION: Ural'skiy politekhnicheskiy institut (Ural Polytechnic Institute)

December 13, 1960 SUBMITTED:

Card 5/3

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18.1735

Sukhanov, Ye.L., and Kuprovskiy, B.B. AUTHORS:

TITLE 2

The thermal conductivity and temperature

conductivity of chrome-nickel alloys

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika no.2, 1962, 5, abstract 26 40. (Tr. Ural skogo

politekhn, in-ta, v.114, 1961, 86-89).

The thermal conductivity  $\lambda$  of stainless steel TEXT: 2 X13 (2Kh13) and 18 X 18 H 9T (1Kh18N9T) and also of nichrome was investigated in the temperature range 10-900 °C by the radial heat-flux method in a thick-walled cylinder and by the regular conditions method. The relationship between the thermal conductivity of steel 2Kh13 and temperature was found and practically coincides with a published value. The value of the temperature conductivity a of the alloys is calculated from experimental results and published data using the formula:

$$a = \lambda/(c_p \cdot d_{20})$$

Card 1/2

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where  $c_p$  is the specific heat of the alloy at the given temperature and  $d_{20}$  is the density of the alloy at 20 °C. The calculations are based on the dimensions of the body at room temperature, and so  $d_{20}$  must be used and not the density at the temperature of calculation. Graphs of a as a function of temperature of calculation.

The thermal conductivity and ...

temperature, and so d20 must be used and not the density at the temperature of calculation. Graphs of a as a function of temperature for the alloys show that for steel 2Khl3 there are two minima on the curve corresponding to phase conversion points two minima on the curve corresponding to phase conversion points. However, on passing through the critical points the thermal conductivity of this steel is unaltered. The thermal and temperature conductivity of alloys 1Khl8N9T and \$20 80 (Kh20N8O), which undergo no phase conversions in the region investigated, increase in an almost linear manner with temperature.

[Abstractor's note: Complete translation.]

Card 2/2

## "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8

KUPROVSKIY, B.B.; GEL'D, P.V.

Heat conductivity of & -titanium. Trudy Ural.politekh.inst.

no.14:153-154 '61.

(Mira 16:6)

(Titanium-?perrul properties)

#### "APPROVED FOR RELEASE: 08/23/2000

1. 一种研究生物域的形态性的类似的网络经过的特殊 的形式是是

CIA-RDP86-00513R000927610017-8

KUPROWSKI MARIAN

Foland/Diseases of Ferm Arimal, Toricoses

2-3

Abs Jour : Ref Zhur-Biol., No 2, 1958, 2733

Author

: Bubien Zenon, Kuprowski Marian, Lipanowicz Jerzy

Inst

: Not given

Title

. Intoxication of Horses by Rapeseed Cakes

Orig Pub : Med. weteryn., 1956, 12, No 10, 613-616

Abstract : Case of intoxication of 14 horses by rapeseed cake is described. Four of the horses died. The main symptoms of intoxication were dyspmea and colic. A pathologo-engtomical examination after an autopsy disclosed frothiness from the nestrils, bulmonary edema, about 10 liters of fluid in the thoracic cavity, and cardiac and hepatic flabbi-ness. A chemical analysis of the content of the gastro-intestinal tract revealed 3% of rapeseed

Card 1/1

#### POLAND

FERTIG, Stanislaw, JASINSKA Stanislawa, <u>KUPROWSKI</u>, <u>Marian</u>, and <u>WACHNIK</u>, Zenon; Chair of Microbiology (Katedra Mikrobiologii) (Director: Prof. Dr. Adam SKURSKI), Chair of Epizootiology (Katedra Epizootiologii) (Director: Prof. Dr. Tadeusz SOBIECH), and the Chair of Pathological Anatomy (Katedra Anatomii Patologicznoj) (Director: Prof. Dr. Aleksander ZAKRZEWSKI), all of the WSR [Wyzsza Szkola Rolnicza, Higher School of Agriculture] in Wroclaw

"Diagnosis of Listeriosis in Sheep."

Warsaw-Lublin, Medycyna Weterynaryjna, Vol 19, No 7, Jul 63, pp 386-391

Abstract: [Authors' English summary] Authors describe centers of listeriosis in sheep in areas where the discase was not previously recorded. They find that histological examinations are of great diagnostic value, and that focal, purulent inflammation of the cerebral stem appears to be a typical pathognomic characteristic of this disease in sheep. There are 26 references: 4 each Soviet and Polish, 3 Western, and 14 German.

12

#### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8

BALBIERZ, H.; KUPROWSKI, M.; SIELICKA, B. (Wroclaw)

Isolation of the virulent Candida albicans strain in the course of enzoctic Lutreola lutreola. Rocz nauk roln wet 70 no.1/4:243-244 160. (EEAI 10:9)

(Minks) (Candida albicans) (Lutreola)

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KUPRYAKHINA, K.Z.; ZIMTSEV, P.P.; IVASHCHENKO, A.T.; KOVALENKO, M.F.; Prinimali uchastiye: MOROZOVA, N.A.; ANTIPOVA, G.G.; LEVINA, N.A.

Use of ion-exchange resins for the decontamination of waste waters.

Koks i khim. no.7:46-47 165. (MIRA 18:8)

1. Ukrainskiy nauchno-issledovatel skiy uglekhimicheskiy institut (for Kupryakhina). 2. Rutchenkovskiy koksokhimicheskiy zavod (for Zimtsev, Ivashchenko, Kovalenko).

133-6-24/33

AUTHORS: Babakov, A.A., Zhadan, T.A., Danilin, V.A., Bakuma, S.F., Antipov, K.I., Kul'kova, M.N. and Kupryakhina, S.Z.

TITLE: An improvement in the technology of production of highchromium plates. (U luchsheniye tekhnologii proizvodstva vysokokhromistogo tolstogo lista).

PERIODICAL: "Stal!" (Steel), 1957, No.6, pp.555-559 (USSR).

ABSTRACT: Optimum conditions of rolling and subsequent heat treatment of plates from steels X25T, X28 and X28 with nitrogen, under which the metal would attain mechanical properties satisfying TY5227-55 and good quality cutting and straightening properties in cold state, were investigated. The following participated in the work: Engineers B.Z.Kononov, V.V.Turitsyn, P.N.Sporyshkov, A.P.Okenko (\*Krasnyy Oktyabr\*) and technician V.I.Shashina (TsNIIChM). It was found that in order to obtain steel plates of required properties slabs should be rolled in a temperature range from 980 to 1000 C - 720 to 800 C with cooling of plates in air. Thermal treatment: a preliminary annealing at 760-780 C for 12-16 hours followed by hardening of each plate (individually) in water after heating the metal to the same temperature (soaking time 3 min per 1 mm thickness of the plate). Chemical composition of steel from the heats

Card 1/2

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An improvement in the technology of production of high-chromium plates. (Cont'.) 133-6-24/33

investigated is given in Table 1, mechanical properties of plates tested in Tables 2 to 6 and some examples of microstructure obtained under various conditions of processing in Figs. 2 to 4.

There are 6 tables and 4 figures.

ASSOCIATION: TsNIIChM and "Krasnyy Oktyabr'" Works. (TsNIIChM i zavod "Krasnyy Oktyabr'").

AVAILABLE: Library of Congress

Card 2/2

KISELEV. A.A., inzh.; LAPSHOVA, M.P.; KUL'KOVA, M.H.; V rabote prinimali uchastiye: KUPRYAKHINA, S.Z., inzh.; KARTSIN, Yu.A., inzh. ZHELUDEVA, O.S., inzh.

Smelting roller-bearing steel in acid furnaces using natural gas and fuel oil [with summary in English]. Stal' 18 no.1:35-40 Ja '58. (MIRA 11:1)

1.Zavod "Krasnyy Oktyabri" (for Kiselev, Lapshova Kulikova). (Smelting) (Bearing metals)

ZVEREV, M Ye.; KUPRYAKOV, B.G.; LYBIN, I.V.

Stand for agitating graduated flasks. Lab. delo 10 no.4:251-252 '64. (MIRA 17:5)

1. Gospitalinnya terapevticheskaya klinika (zaveduyushchiy - prof. A.A.Kovelevskiy) Tomskogo meditsinskogo instituta.

MILLER, O.G.; KULKYAKOV, Yu.P.; ABDEYEV, M.A.; MIKHAYLOV, N.I.

Reducing losses of copper with waste slags at the Karsakpay plant. Trudy Alt.GMNII AN Kazakh.SSR 11:3-9 '61. (MIRA 14:8)

(Karsakpay—Copper industry) (Smelting furnaces)

KUPHYAKOV, Yu.P.; MILLER, O.G.; SAMKOV, Ye.A.

Use of an air-oxygen blow in the reverberatory smelting of copper concentrates. TSvet. met. 38 no.9:27-31 S 165.

(MIRA 18:12)

Use of oxygen in reverberatory smelting of copper concentrates.

Izv. AN Uz. SSR. Ser. tekh. nauk & no.5\*78.80 '64.

(MIRA 18:2)

1. Sredneszistskiy filial Gosudarstvennogo nauchno-assledovatel skogo instituta tavetnykh metallov.

BOCHKAREV, L.M.; BYKHOVSKIY, Yu.A., kand. tekhn. nauk; KUPRYAKOV, Yu.P.; KOSTERIN, V.V.; PARETSKIY, V.M.

Pilot plant testing of the smelting of copper sulfide concentrates in suspension with an oxygen blow. Shor. nauch. trud. Gintsvetmeta no.23:115-126 '65. (MIRA 18:12)

KUHRYAHOV, V. V.

"Distribution of network, methods of observation and estimation of evaporation from water surface."

report submitted for Intl Symp on Design of Hydrological Networks, Quebec, 15-22 June 1965.

MINDEVACUIN, N.M.: "The hydraulics of the eday nume". Moscow, 1955. "In Piener Education MSSR. All-Union Correspondence Power Engineering Inst. (Dissertations for the Degree of Candidate of Technical Sciences).

SO: Krizhnawa lotoolg' No M4, 29 October 1955. Moncow.

122-4-3/29

Kupryashin, N.N., Candidate of Technical Sciences and Kovalenko, V.G., Candidate of Technical Sciences. AUTHOR:

The present state of the theory and methods of design of vortex pumps (Sovmennoe sostoyanie reorii i metodov

rascheta vikhrevykh nasosov.)

TITLE:

"Vestnik Mashinostroeniya" (Engineering Journal), 1957, No.4, pp. 20 - 28 (U.S.S.R.) PERIODICAL:

ABSTRACT: The various names given to the vortex pump in world literature are compared. The name "Vortex" pump is considered the most suitable, because it describes their principle of action. These centrifugal pumps with a lateral ring channel around the periphery are used mainly in the region of small specific speeds (4 - 50) where ordinary centrifugal pumps are inapplicable because of low efficiency, difficulty of manufacture, or absence of self-priming qualities. With the same impeller diameter and r.p.m. the vortex pump yields a head 3 - 5 times greater than the centrifugal pump. It is therefore used for high pressure (25 - 250 m) at comparative-therefore used for high pressure (25 - 250 m) at comparative-ly low flows (2-60 m)/hr). Three types of vortex pumps are in use. In the first, the peripheral side channel is "blind" whilst the suction and pressure ports are at a radius smaller than the side channel. In the second and third types with a 1/5

The present state of the theory and methods of design of vortex pumps. (Cont.) 122-4-3/29 unilateral or bilateral open peripheral side channel the ports are situated directly at the beginning and the end of the channel, though sometimes the suction port is situated at a smaller radius. Only the first type of vortex pump possesses the property of self-priming. The theory of the vortex pump as developed by three Russian and two U.S.A. investigators is critically reviewed. B.I. Nakhodkin ("Investigation of the vortex pump in water". Dissertation, Moscow Power Institute, Moscow, 1951) visualised the vortex pump pressure consisting of the ordinary centrifugal pressure plus a vortex pressure resulting from the transfer of energy by the fast moving particles of liquid in the impeller cells to the slowly moving particles of liquid in the channel, this transfer being associated with the formation and decay of vortices in the working portion of the lateral channel. No analytical theory of existing pumps has been developed, and the pressure coefficient as well as the various design parameters are found from graphs and tables. The American investigations by Iverson ("Performance of the periphery pump", Trans. ASME, Vol.77, No.1, 1955) and 2/5 Wilson (Santalo, M.A. and Oelrich, J.A. "A theory of the fluid - dynamic mechanism of regenerative pumps" Trans. ASME, Vol.77,

1. 27.1 15.4 15.20(16) 16.00(16) 16

The present state of the theory and methods of design of vortex pumps. (Cont.)

122-4-3/29

No.8, 1955) are based on the hypothesis of an increased mass of liquid in the side channel owing to shear stresses which arise in the flow due to an interaction between the impeller and the liquid. They adopt the theory that the liquid particles in the side channel move along spiral (helical) trajectories. Their analytical formulae for the outlet pressure, power and efficiency are reproduced but are not considered practically usable. Design work, analysis of the working process, and tests carried out at the "Krasnyy Fake!" plant lead to the distinction between the main vortex and subsidiary vortices arising as a result of fluid flow around the vane edges, roughness, and other causes. In a correctly designed pump the main vortex should be predominant. The entrainment of the liquid mass by the impeller motion is accompanied by a partial or full decay of the vortices, their deformation or "shear". This vortex deformation or decay causes shear stresses in pumps with a lateral channel of semi-circular cross-section, vortices with an axis normal to this cross-section arise most easily and vortices with other axes are most likely to be suppressed, when the impeller blades are thin and 3/5 their number is large. Following the senior author's dissertation (Kupryashin, N.N. "The hydrodynamics of the vortex pump"

The present state of the theory and methods of design of vortex pumps. (Cont.) Dissertation, Moscow Power Institute, Moscow, 1955) the theory of the pump is developed for a type of fluid motion described by a coil wrapped around a wheel. This one-dimensional theory, with the help of momentum equations is developed for an ideal fluid and leads to the basic equation of the vortex impeller from which the pressure developed can be determined in relation to all the design parameters of the wheel. Pressure-volume, power and efficiency graphs are reproduced for several Soviet designs and compared with calculated graphs from the formula, showing good agreement. Guidance for the application of vortex pumps is given as follows: liquid viscosity below 5 Engler, size of mechanical impurities up to 0.1 mm, head per impeller between 1 and 200 m, flow between 0.1 and 17 4/sec, maximum efficiency 45%, minimum weight pr kW, 2 kg, speed up to 6 000 r.p.m. The determination of the main design parameter from the basic formula is discussed in detail. The cross-section of the side channel has a large effect on the properties of the pump. With increasing cross-sectional area, the pressure becomes smaller and the characteristic curve flatter. The effects of the number of blades, of an open or enclosed impeller design, of forward facing or backward facing blades are

The present state of the theory and methods of design of vortex pumps. (Cont.)

discussed.

There are 10 figures, including 5 graphs, and 13 references, 7 of which are Slavic.

AVAILABLE:

KUPRYASHIN, N.N.

122-2-3/33

Kovalenko, V.G. and Kupryashin, M.H., Candidates of AUTHORS:

Technical Sciences.

Modern Designs of Vortex and Centrifugal-Vortex Pumps (Sovremennyye konstruktsii vikhrevykh i tsentrobezhno-TITIE:

vikhrevyki nasosov)

Vestnik Mashinostroyeniya, 1958, No.2, pp. 10-16 (USSR)

Enclosed vortex pumps were produced by Soviet industry PERIODICAL: in larger numbers than open vortex pumps, typical abroad. Enclosed pumps have a steeper pressure volume characteristic, ABSTRACT: better efficiency and stronger impeller vanes. Their greater susceptibility to cavitation has led to the development of centrifugal-vortex pumps with a centrifugal stage preceding the vortex stage. A typical design, designated UBC-53, is illustrated in cross-section and its cavitation properties are shown in a graph (Fig.2). The centrifugal stage permits a range of speeds up to 6 000 r.p.m. A series of sizes of single impeller, centrifugal-vortex pumps has been broughtout for petrol engine driven pumping units. The provision of a selfpriming device in the shape of a separating dome is illustrated (Fig.4) and discussed. The study of separating dome design has shown that an increase in dome size and the raising of the Cardl/3 liquid level in it increase the intensity of suction. However,

## 122-2-3/33

Modern Designs of Vortex and Centrifugal-Vortex Pumps

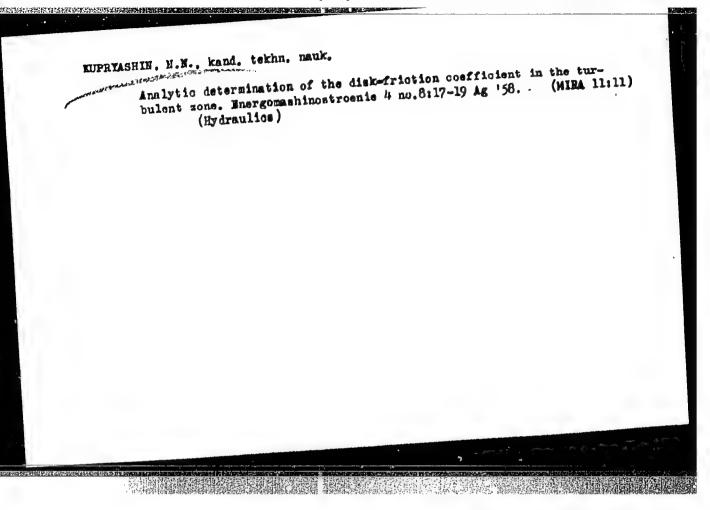
various designs of dampers above the pressure port and the choice of an optimum velocity of flow through the priming port can increase the suction without increasing the dome size. Wire mesh dampers have proved effective. Vortex stages should be relieved of radial stresses. The design of an unloading ring developed by the "Krasnyy Fakel" plant is illustrated in Fig. 5. The wheel has two concentric vane rings, and the housing, corresponding working channels. These constitute two stages in series and raise the liquid head up to 120 m. Another solution is shown in Fig. 6, where the wheel has cantilever vanes. Its advantages are discussed in detail. The same principle is incorporated in another pump (Fig. 9) for high-pressure duties. The cantilever vanes make it possible to embody a hydraulically well-designed flow system from the centrifugal stage to the vortex stage. The overall efficiency centrifugal stage to the vortex stage. The overall efficiency due to the reaches 36%. The loss of pressure (and efficiency) due to the priming dome is computed and found to reach 15%. To reduce the pressure losses due to the sudden widening of the flow the pressure losses due to the sudden widening of the flow passage, a spiral outlet can be designed similar to that of centrifugal pumps. Further design ideas are discussed. combination of a centrifugal and vortex wheel in parallel to

Modern Designs of Vortex and Centrifugal-Vortex Pumps

achieve a self-priming pump is illustrated, but the series
achieve as advocated. The design of a pump housing incorporating
design is advocated. The design of a pump housing incorporating
two suction and two pressure port (Fig. 13) is shown, which
permits doubling the suction head.
There are 13 figures and 3 Russian references.

AVAILABLE: Library of Congress

Card 3/3



KUPHYASHIN, N.H., kand.tekhn.nquk; MYAGKOV, D.Ya., inzh.

Improving the design of hydraulic screw tools. Trakt. i sel'khozmash.

(MIRA 11:11)

(Hydraulic machinery)

#### "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927610017-8

KOVALENKO, V.G., kand. tekhn. mauk; KUPRYASHIN, N.H., kand. tekhn. nauk,

Modern designs of vortex and centrifugal vortex pumps. Vest. mash.

(MIRA 11:1)

(Pumping machinery)

#### "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927610017-8

MUPRYASHIN, N.N., kand. tekhn. nauk; MYAGKOV, D.Ya., inzh.

Aspects of the development of assembly work mechanization. Vest.

(MIRA 11:3)

cash. 38 no.4:19-23 Ap '58.

(Sorowdrivers)

sov/122-59-6-23/27

Kupryashin, N.N., Candidate of Technical Sciences Two-speed Hydraulic Screw Motor Nut Driver AUTHOR:

Vestnik mashinostroyeniya, 1959, Nr 6, pp 82-85 (USSR) TITLE:

ABSTRACT: Following the example of the English "Desoutter" 2-speed pneumatic nut driver, in which the sudden increase of PERIODICAL:

torque resistance on reaching the tightening position produces a gear shift into slow, high-torque operation, the hydraulics laboratory of the NII Traktorosel'khozmash has developed two-speed hydraulic screw motor nut drivers, type UGR-10, namely, with a mechanical or a hydraulic reducing gear, respectively. Except for the reducing gear, other components are identical. The single-speed hydraulic driver (Figure 1), previously described by the author and others (Ref 1) has a screw-type hydraulic motor with a central rotor and two idlers connected to the driving spindle through a two-step reduction gear. The mechanical two-speed variant (Figure 2) has a torque limiting coupling

connecting directly the hydraulic motor spindle with the driving spindle and a free-wheel clutch between the gear and

Card1/3

マー・・・・ デースを行うなど、大切の変更に変更に変更に変更にある。

SOV/122-59-6-23/27

Two-speed Hydraulic Screw Motor Nut Driver

pinion of the cluster assembly forming the second and third gear of the four-gear reducing gear-train. The torque limiting coupling is of the cone friction type. At high speed, the pressure loss in the channel to the hydraulic motor causes increased tightening of the cone. At low speed, the sliding proceeds at reduced cone pressure. The free-wheel clutch is of the roller type. The hydraulic reducing gear variant (Figure 4) contains, in place of the gear train, a vane rotor coupled to the driving spindle through a free-wheel clutch. In high-speed operation, the nut driving spindle is directly driven by the hydraulic screw motor. When the spindle is braked on reaching the tightening position of the nut, a spool valve inside the spindle is displaced against a spring and oil appears on the pressure side of the vane, thus creating the tightening torque. The vane rotor drives the nut driving spindle through the free-wheel clutch. The rotational speed of the nut driving spindle drops by the ratio of the vane area to the corresponding hydraulic motor screw area and so a hydraulic speed reduction is achieved. After completion of

Card2/3

一一个并用的数据并可以和现代证明中国中国中国的国际的证明,并是中国的证明

Two-speed Hydraulic Screw Motor Nut Driver

nut tightening, the spool valve spring restores the valve to the initial position and thereby returns the vane to its initial position. The author favours the mechanical reducing gear for small units with a relatively low reduction ratio (2.5 - 7). For high torque and large ratios (about 20) the hydraulic reducing principle yields a more compact unit. There are 4 figures and 2 references, cf which 1 is Soviet and 1 English.

Card 3/3

KUPRYASHIN, N.N., kand.tekhn.nauk; MYAGKOV, D.Ya., inch.

Multiple-spindle hydraulic nut driver. Trakt.i cel'khosmach.
no.8; 38-40 Ag '59.
(Bolts and nuts)

(Bolts and nuts)

KUPRYASHIN, N.N., kand. tekhn. nauk

Hydroholical pump and vibrator. Strol. 1 dor. mash. 7 no.4:
28-30 Ap 162.

(Vibrators)

Using novocaine in some diseases of the ear, nose, and throat.
Vest. oto-rin. 19 no.1:111 Ja-F '57 (MIRA 10:4)

1. Iz kafedry bolezney ukha, gorla i nosa (zav.-prof. A.Kh.
Min'kovskiy) Chelyabinekogo mediteinekogo instituta.
(NOVOCAINE) (OTORHINOLARYNGOLOOY)

KUPRYASHIMA, Z.I.

Eye injuries from 1947 to 1958 data of the ophthalmological outpatient department of the S.V. Ochapovskii Krasnodar Clinical Mospital. Vestn. oftal. 76 no.4:56-58 J1-Ag\*63 (MIRA 17:1)

KUPRYJANCZYK, Boguslaw, inz. (Opole)

Welding of medium and low pressure steam pipelines. Gosp paliw 11 no.10:389 0 '63.

KUPRYJANCZYK, B.

The management of electric power in the cement industries. p. 231. (Cement, Wapno, Gips, Krakow, Vol. 12, no. 10, Oct. 1956.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

KUFRYK, Lech, mgr inz.; KUBIAK, Stefan, inz.

Survey of production of the Electric Lamp Assembly Equipment
Works. Wiad elektrotechn 30 no.5:170-172 My '62.

POLAND/Organic Chemistry - Natural Compounds and Their

G.

Synthetic Analogs.

Abs Jour

: Ref Zhur - Khimiya, No 16, 1958, 54118

Author

: Kupryshevsky, Sokolovskaya

Inst

· II-projectovenjy consumovening

Title

: New Methods for Esterification of Amino Acids.

Orig Pub

Acta biochim. polon., 1957, 4, No 2, 85-92

Abstract

New methods for a direct esterification of amino acids (A A) and their N-acyl derivatives were developed. To a solution or a weighed amount of 0.1 mole of an AA in I.2-2 moles of an aliphatic alcohol, 0.12 moles of SOCL, at 0°C is added and set aside for 48 hours

( $\sim$ 20°C). After an alcohol excess has been vacuum distilled (bath temperature 100°C), the ester hydrochlorides

are obtained.

The N-acyl-AA are esterified under the same conditions, using SOCL<sub>2</sub> or CH<sub>2</sub>OCL. These methods are suitable for

Card 1/5

APPROYED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8 Synthetic Analogs.

Abs Jour

: Ref Zhur - Khimiya, No 16, 1958, 54118

an AA esterification with primary or secondary alcohol (in liquid state); with tertiary alcohols, the reaction proceeds unsatisfactory.

One tenth mole of N-acyl-AA is dissolved in an anhydrous  $\rm ^{C_5H_5N}$  and to it 0.1 mole of  $\rm ^{C_6H_5SO_2Cl}$  is added (0°C).

After 5 minutes 0.1 mole of phenol, nitrophenol or an aliphatic alcohol is added, and the contents set aside for 2 hours (20°C) after which time they are poured into 80-100 g. of ice. The following R'NHCHR"COOR are prepared (R,R;, R" and the yield in \$ is given):

1) Using SO: 2; CH<sub>3</sub>, H, H, 97; C<sub>2</sub>H<sub>5</sub>, H, H, 98; CH<sub>3</sub>, H,

 $^{\text{CH}}_{3}$ , 88;  $^{\text{C}}_{2}^{\text{H}}_{5}$ ,  $^{\text{H}}$ ,  $^{\text{CH}}_{3}$ , 92;  $^{\text{CH}}_{3}$ ,  $^{\text{H}}$ ,  $^{\text{C}}_{3}^{\text{H}}_{7}$ , 92;  $^{\text{C}}_{2}^{\text{H}}_{5}$ ,  $^{\text{H}}$ ,

 $c_3H_7$ , 89;  $cH_3$ , H, iso- $c_3H_7$ , 91;  $c_2H_5$ , H, iso- $c_3H_7$ , 85;

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POLAND/Organic Chemistry - Natural Compounds and Their Synthetic Analogs.

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Abs Jour

: Ref Zhur - Khimiya, No 16, 1958, 54118

 $c_{6}H_{5}c_{0}$ , iso- $c_{4}H_{9}$ , 95;  $c_{H_{3}}$ ,  $c_{6}H_{5}c_{0}$ ,  $c_{H_{2}}c_{6}H_{5}$ , 87;  $c_{2}H_{5}$ ,

С6Н5СО, С6Н5СН2, 87.

3) Using  $C_6H_5SO_2Cl$ :  $CH_2C_6H_5$ ,  $C_6H_4(CO)_2$ , H, 83;

 $c(cH_3)_3$ ,  $c_6H_4(co)_2$ , H, 96;  $c_6H_5$ ,  $c_6H_4(co)_2$ , H, 92;

 $c_{6}H_{5}No_{2}-p$ ,  $c_{6}H_{4}(co)_{2}$ , H, 86;  $c_{6}H_{4}No_{2}-o$ ,  $c_{6}H_{4}(co)_{2}$ , H,

93;  $c_{6}^{H_{1}NO_{2}-p}$ ,  $c_{6}^{H_{5}CH_{2}OCO}$ , H, 89.

Card 5/5

POLAND / Organic Chemistry. Natural Compounds and Their Synthetic Analogs.

G-3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8

Author : Taschner, E.; Kupryszewski, G., and Liberek, B.

Inst Not given.

itle : On the Selective Cleavage of Ester Groups in N-acylated Amino Acids and Peptides During

Acidolysis.

Orig Pub: Rocziki Chem, 30, No 2, 643-646 (1956) (in Pol-

ish with an English summary).

Abstract: C<sub>6</sub> H<sub>5</sub> CONHCCH<sub>2</sub> COOR (I), where R = CH<sub>3</sub>, C<sub>2</sub> H<sub>5</sub>,
CH(CH<sub>7</sub>) - or CH<sub>2</sub> C<sub>3</sub> H<sub>7</sub> (Ta) as well as the

CH(CH<sub>3</sub>)<sub>2</sub>, or CH<sub>2</sub> C<sub>6</sub> H<sub>5</sub> (Ia), as well as the ester of the peptide /sic/ C<sub>6</sub> H<sub>5</sub> CONHCH<sub>2</sub> CONHCH-(COOCH<sub>3</sub>) CH<sub>2</sub> C<sub>6</sub> H<sub>4</sub> OH 4 are selectively cleaved at the ester group at about 20° after 4-6 days

Card 1/2

KUPRYSZEWSKI, G.; SOKOLOWSKA, T.

New method for the enterification of amino acids. Acta biochim. polon. 4 no.2:85-92 1957.

1. Z Katedry Chemii Ogolnej Politechniki Gdanskiej Kierownik Katedry: Prof. dr E. Taschner.
(AMINO ACIES

esterification, new method (Pol))

CONTRACTOR SERVICE SER

1. 18.84228 also 1 6

POLAND / Organic Chemistry. Natural Substances and their Synthetic Analogues.

Abs Jour: Ref Zhur Khimiya, No 20, 1958, 67666.

Author : Taschner E., Kupryszewski G.

Inst : Not given.

Title : Overacylation. Size of Acyl Groups in the N-acylated Amines, Aminoacids and Peptides Under the Influence of Organic Acids.

Orig Pub: Roczn. Chem., 1957, 31, No 2, 711-713.

Abstract: Overacylation of the esters of dibenzoylglycine and of hippuric acid was observed while heating in the presence of an acid catalyst (HoSO4 or HBr) in CH3COOH which was revealed by the evolution of

Card 1/2

# APPROVED FOR RESPECTOR 219 2000 Sucing Post 90513R000927610017-8

Abs Jour: Ref Zhur-Khimiya, No 20, 1958, 67666.

Abstract: benzoic acid. An anological reaction was conducted by heating acetanilide with C Cl<sub>3</sub>COOH that yielded 80% of trichloracetanilide. Application of this reaction to the peptides showed that N--benzol-DL-lycylglycine breaks down into N-benzoyl-DL-lycine (87% yield) and N-acetylglycine, while hippurylglycine, phthaloyl-DL-phenylalanylglycine and phthaloylglycine-DL-phenylalanine do not enter reaction. The described overacylation reaction may be presented by the following general formula: R'CONHR + R''COOH.

Card 2/2

SOKOLOWSKA, T.; KUPRYSZEWSKI, G.; TASCHNER, E.

New method of synthesis of peptides via N-protected symmetrical anhydrides of aminoacide. Bul Ac Pol chim 6 no.2:89-91 158

1. Department of General Chemistry, Institute of Technology, Gdansk. Communicated by T. Urbanski.

(Peptides) (Anhydrides) (Amino acids)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8"

3-3 Poland Country Category 45977 Abs. Jour Sokolowska, T., Kupryezauski, G., and Taschner, E. Author Not given New Method for the Synthesis of Peptides Via Institut. Symmetric Anhydrides of N-Substituted Amino Acids Title : Roczniki Chem, 32, No 4, 815-819 (1958) Orig Pub. : The authors describe a new method for the synthesis of dipeptides from tosyl- or phthalylamino Abstract acids (I) and the hydrochlorides (HC) of amino acid esters (II) in the presence of penzenesulfonyl chloride (III). A mixture of 1 mmol I and 1-2 mmols II in 1-3 ml anhydrous C, H, N is treated with 1 mmol lil with cooling and left to stand 1-20 hrs at 20°; the reaction product is precipitated with water. The primary and secondary components, the amounts used (in mmols), the Cará: 1/4

Country Poland Category G-3 Aba. Jour 4597 Author Inatitut. Title Orig Pub. Abstract the volume of fyridine in ml, the name of the peptide, yield in %, and mp in °C are given below: phthalylglycine (Ia), AC of the methyl aster (ME) of plycine (IIa), 5,5,10, HE of phthalyl-glycyl-glycine, 79, -; Ie, FC of ME of DL-Leucine, 15, 10, 10, ME of phohalyslycyl-DL-Leucine, 54, 165-166 (from ethyl acetate postroleum ether); phthalyl-DL-leucine, EC of the ethyl ester of glycine, -,2,4, ethyl ester of puthalyl-M-leucyl glycine, 52, -: Ia, HC of ME Card: 2/4

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8" Polanu Catogory Abs. Jour 9-3 rendud Institut. 4597 Title Orig Pub. Abstract of DL-phenylalanine (IIb), 2.5, 2.5, 5, ME of phthalylglycyl-DL-phenylalanine, 86, 125; phthaly1-DL-phenylalanine, IIa, 5,5,5,EE of phthalyl-DL-phenylalenyiglycine, 90, 135-136; N, O-ditosyl-L-tyrosine (Jb), IIa, 2,4,6, ME of H.O-ditosyl-L-thyrocylglycine, 95, 75-76 (from 50% Сн, ОН), [ X ]20 D -16° (c = 0.6; alcohol). The synthesis probably proceeds by the formation of symmetrical I anhydrides since the authors succeeded in Isolating phthalylglycine Card: 3/4

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927610017-8

COMPRI

: Poland

G-5

CATAGORIA

ABJ. JOUR. : RZKhim., No. 22

1959, Yo.

78750

AUTHOR

: Taschner, E., Kupryszewski, G., and Liberek, B.

IUST.

: Not given

TITLE

: Acidolysis. II. Investigation of the Cleavage of Esters of N-Acylated Amino Acids and Peptides.

ORIG. PUB. : Roczniki Chem. 32, no 5, 1107-1113 (1958)

ABSTRACT

: The authors have soudied the effect of temperature, reaction time, and various organic acids and catalysts on the degree of acidolysis. The experiments were carried out in the main on esters of hippuric acid. The optimum reaction medium is glacial CH, CCOH with HBr as catalyst (1-1.5 mol per mol of cater; 4-6 days, about 20°). Following distillation of the Cd COOH and HBr under vacuum, the residue is dissolved in ethyl acetate or in ether, extracted with a

CARD: 1/4

142

#### APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8

ABS. JOUR. : AMMhim., no. 22 1950, No.

78750

TTHER

ORIG. PUB. :

ABOTRACT

solution of  $Na_2C(\zeta)$ , and acidified. The yield of N-acylated solds or of dipeptides is 80-90t. The authors have confirmed that the degree of cleavage is independent of the nature of the alcohol residue. The esters of N-photosyst- and a, H' + dipensoylaming actar form or exception: the cleavage of the methyl ester of phtmalylalicine ittains 89%, while that of the ethyl anter is only 55%; the ethyl ester of N.R'-dibenzoyiclycine is not cleaved, apparently recause of steric

CARD: 2/4

TASCHNER, E.; KUPRYSZEWSKI, G.; UMINSKI, T.; BOROWSKI, E.

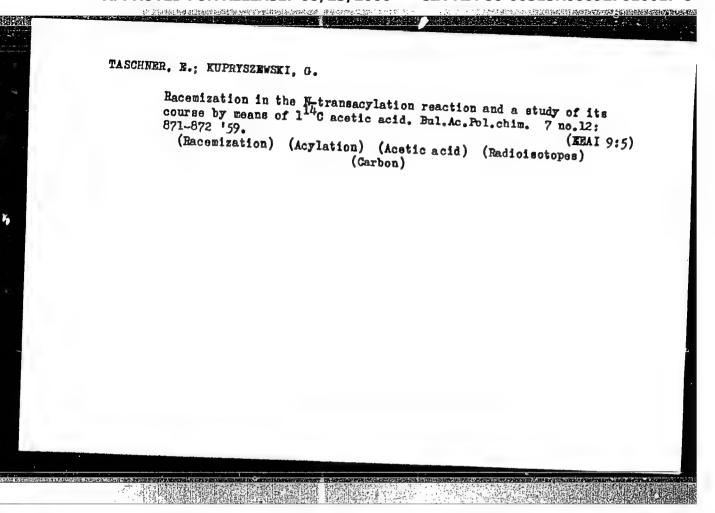
Investigations on the mechanism of the N-transacylation reaction by means of 114C labelled acetic acid. Bul.Ac.Pol.chim. 7 no.12:

(ERAI 9:5)

1. Department of General Chemistry, Technical University, Gdansk.

II Department of Physics, Technical University, Gdansk.

(Acylation) (Acetic acid) (Carbon) (Radioisotopes)



TASCHNER, E.; WASIELEWSKI, C.; KUPRISZEWSKI, G.; UMINSKI, T.

Investigations on the reaction mechanism of O-acidolysis by means of 1<sup>14</sup>C acetic and propionic acids. Bul.Ac.Pol.chim. 7 no.12;873-875 \*59.

(Acetic acid) (Propionic acid) (Hydrolysis)

(Carbon) (Radioisotopes)

KUPRYSZEWSKI, Gotfryd; KACZMAREK, Marian

On aminoacid chlorophenyl esters, I. N-protected aminoacid 2,4,6-trichlorophenyl esters. Rocz chemii 35 no.4:931-936 '61.

1. Department of Organic Chemistry, Normal School, Gdansk.

# KUPRYSZEWSKI, Gotfryd; FORMELA, Malgorzata

On aminoacid chlorophenyl esters. III. N-protected amino acid pentachlorophenyl esters. Rocz chemii 35 no.5:1533-1536 '61.

1. Department of Organic Chemistry, School of Education, Gdansk.

P/528/61/001/000/005/007 D207/D308

AUTHOR:

Kupryszewski, Gotfryd

TITLE:

N-shielded amino acid 1-methyl-2-acetylvinyl

esters and an attempt to use them for the

synthesis of peptides

SOURCE:

Danzig. Wyższa Szkola Pedagogiczna. Zeszyty naukowe. Matematyka, fizyka, chemia, v. 1,

1961. Danzig, 1962, 95 - 98

TEAT:

N-shielded amino acid 1-methyl-2-acetylvinyl esters were prepared by the method of Wieland and Heinke (Ann., 615, 184 1958) from ice-cooled pyridine solutions of N-shielded amino acids and acetyl acetone in the presence of phosphorus oxychloride dissolved in methylene dichloride. The esters were mixed of cis and trans forms. Only two of the esters (phthalyl glycine and phthalyl-DL-phenylalanine) were crystalline. The esters could be used to synthesize peptides by aminolysis. N-shielded dipeptide esters were obtained from the crystalline active esters in

Card 1/2

k-shielded amino acid ...

P/528/61/001/000/005/007 D207/D308

50 = 90% yields, and in 50 - 65% yields from the noncrystalline esters. The rate of aminolysis of 1-methyl-2-acetylvinyl esters was considerably greater than that of analogous phenyl esters, but the practical applications of this observation are very limited because of the difficulties of obtaining peptides in crystalline

;.

ASSOCIATION:

Natedra Chemii Organicznej Wyższej Szkoly Pedagogicznej, Gdańsk (Organic Chemistry Department, Higher School of Education,

SUBMITTED:

March 16, 1961

Card 2/2

· 不行了於明顯的發現的學術就是簡單的學術都可能的學術的一种語言。1225

P/528/61/001/000/006/007 D204/D307

AUThoms:

Kupryszewski, Gotfryd and Formela, Malgorzata

TITLE:

Pentachlorophenyl esters of amino acids. IV. The application of pentachlorophenyl esters of h-shielded amino acids to the synthesis of peptides

, pepul

SOURCE:

Danzig. Wyższa Szkoja Pedagogiczna, Zeszyty naukowe. Matematyka, fizyka, chemia, v. 1, 1961. Danzig. 1962, 99 - 101

TEXT: This article is a continuation of previous studies (Roczniki Chem., 35, 931 (1961): 35, 595 (1961): 35, 1555 (1961)) in which a method for the preparation of active pentachlorophenyl esters (A) of N-shielded amino acids was developed. In the present work, the aminolysis of A was carried out in tetrahydrofuran or dioxan, using methyl or ethyl esters of other amino acids. Compounds A were found to be efficient acylating agents, reacting at room temperature to give 75-98% yields of the corresponding esters of N-shielded dipeptides.

Pentachlorophenyl esters ...

P/528/61/001/000/006/007 D204/D307

The following compounds were obtained: the ethyl esters of carbobenzoxyglycylglycine, carbobenzoxyglycyl-DL-phenylaniline, carbobenzoxyglycyl-L-tyrosine, carbobenzoxy-DL-alanylglycine, carbobenzoxy-L-leucylglycine, carbobenzoxy-DL-phenylalanylglycine, cine, phthalyl-DL-alanylglycine, and phthalyl-DL-leucylglycine, and the methyl esters of phthalyl-DL-phenylalanylglycine and tosyl-DL-valylglycine. The use of water-miscible tetrahydrofuran and dioxan is necessary in view of the relatively low solubility of the pentachlorophenyl esters in ethyl acetate; despite the consequent difficulties in purifying the reaction products, the method proposed is essentially very simple. There is 1 table.

ASSOCIATION:

Katedra Chemii Organicznej Wyższej Szkojy Fedagogicznej, Gdańsk (Department of Organic Chemistry, Higher School of Education, Gdańsk)

SUBMITTED:

June 25, 1961

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TASCHNER, Emil; KUPRYSZEWSKI, Gotfryd

Application of the N-acidolysis reaction for cleavage of peptide bonds. Rocz chemii 36 no.1:63-72 162.

1. Department of General Chemistry, Institute of Technology, Gdansk.

#### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610017-8

KUPRYSZEMSKI, Gotfryd; FORMEIA, Malgorzata

Amino acid chloropheryl esters. Pts. 6-7. Matem fiz chem Gdansk 2 127-134 162.

1. Department of Organic Chemistry, School of Education, Gdansk.

KUPRYSZLMSKI, Gotfryd; WOJNOWSKI, Wieslaw

New esters of 4,6 dimitro-O-cresole. Matem fiz chem Gdansk 2 143-144 162.

1. Department of Organic Chemistry, School of Education, Gdansk, and Department of Inorganic Chemistry, Institute of Technology, Gdansk.

## KUPRYSZEWSKI, Gotfryd

Depsipeptides. Pt.l. Matem fiz chem Gdansk 2 155-180 '62.

1. Department of Organic Chemistry, School of Education, Gdansk.

3/061/62/000/022/015/088 B144/B101

AUTHORS:

Sokolowski, Janusz, Kupryszewski, Gotfryd, Umiński,

Tadeusz

TITLE:

Use of compounds tagged with the radioactive carbon isotope

c14 to study the conversion of N-glucosides. I. Exchange of

acetyl groups in N-acetyl-N-2,3,4,6-tetra-0-acetyl-D-

glucopyranosyl-p-aminoazobenzene

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 22, 1962, 153, abstract

22Zh12 (Roczn. chem., v. 36, no. 2, 1962, 215-221 [Pol.;

summaries in Russ. and Eng. )

TEXT: Hydrolysis of N-acetyl-N-2,3,4,6-tetra-0-acetyl-D-glucopyranosyl-p-aminoazobenzene (I) leads to the formation of N-acetyl-N-D-glucopyranosyl-p-aminoazobenzene (II) and of a small quantity of N-D-glucopyranosyl-p-aminoazobenzene (III). The position of the acetyl group in I was determined on the basis of a study of the acyl exchange in I: the effect of C<sup>14</sup>H<sub>3</sub>COOCOCH<sub>3</sub> (IV) on I leads to an exchange of the N-acetyl Card 1/2

S/081/62/000/022/015/088
Use of compounds tagged with ...
B144/B101

group. The mixture of 0.2 g I [m.p.  $199-200^{\circ}$ C, [a] $_{D}^{17} + 32 \pm 3^{\circ}$  (c 0.402, chloroform)], 0.02 g ZnCl $_{2}$ , and 0.5 ml IV (activity 0.01 mcu/ml) is kept for 4 hrs at  $100^{\circ}$ C; I with  $C^{14}$  (activity 748 imp/min per mmole) is obtained. The mixture of 0.2 g N-N-2,3,4,6-tetra-0-acetyl-D-gluco-pyranosyl-p-aminobenzene (V), 0.02 g ZnCl $_{2}$ , and 0.5 ml IV is heated for 0.5 hr; I with  $C^{14}$  is obtained; yield 0.12 g (activity 1978 imp/min per mmole). To 107.7 mg I, produced from V, 36 mg (CH $_{3}$ ) $_{2}$ NH dissolved in 9.5 ml CH $_{3}$ OH is added, the mixture is stirred for 9 hrs at  $20^{\circ}$ C, and a mixture of II (86%) and III (10  $\pm$  4%) is obtained (the yield was determined by paper chromatography and by measuring the activity of the mixture). [Abstracter's note: Complete translation.]

Card 2/2

# KUPRYSZEWSKI, Gotfryd; WOJNOWSKI, Wieslaw

On phenyl and thiophenyl esters of halogenoacetic scid. Rocz chemii 36 no.2:359-362 '62.

1. Department of Organic Chemistry, Normal School, Gdansk, and Department of Inorganic Chemistry, Institute of Technology, Gdansk.

KUPRYSZEWSKI, Gotfryd; KAZMIERCZAK, Ryszard

Simple method of characterizing fatty acids by p-[4-nitrophenylazo]-phenyl esters. Rocz chemii 36 no.9:1325-1327 162.

1. Department of Organic Chemistry, Normal School, Gdansk, and Department of General Chemistry, Medical Academy, Gdansk.

KURRYSZEWSKI, Gotfryd

Depsipeptides. Pt.2. Rocz chemii 36 no.11:1593-1598 162.

1. Department of Organic Chemistry, Hormal School, Gansk.

KUPRYSZEMSKI, Gotfryd; FORFELA, Malgorzata

Dopsipeptides. Pt.3. Rocz chemii 37 nc.2:161-165 '63.

1. Department of Organic Chemistry, Mormal School, Gdansk.

### KUPRYSZEWSKI, Gotfryd

Amino acid chlorophenyl esters. Pt. 8. Rocz chemii 37 no.5: 593-596 \*63.

1. Department of Organic Chemistry, Normal School, Gdansk.

KUFRYTE, Q.

SCIENCE

PER'ODICAL: DARBAI. SERIJA B. TRUDY. SHRIIA E. No. 2, 1958

Kupryte, O. Concering the glandular tissue of mucous membrane of the colon of a swine. In Russian p. 207.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2, February 1959, Unclass.

GORDIYEVSKIY, A.V.; FILIPPOV, E.L.; HUFRYUNIN, G.I.

Behavior of a membrane ion exchanger electrode in solutions of hydrofluoric acid and its salts. Zhur. anal. khim. 18 no.1:13-19 Ja '63.

1. Mendeleyev Moscow Chemico-Technological Institute.
(Hydrofluoric acid) (Ion exchange)
(Electrodes)

KAZMIERCZAK, Ryszard; KUPRYSZEWSKI, Gotfryd

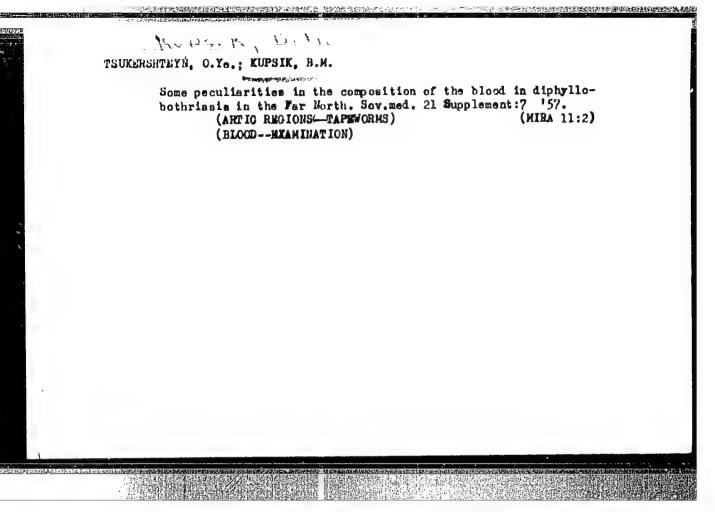
New method of characterizing N-acylated aminoacids as p-phenylazo-phenyl amides and esters. Rocz chemii 37 no.6:659-661 '63.

1. Department of Organic Chemistry, Normal School, Gdansk.

KUPSC, Olgierd, mgr. inz.

The two-component electroresistance drilling dynamometer. Mechanik 35 no.7:382-384 Jl '62.

1. Fabryka Wyrobow Precyzyjnych, Warszawa.



TSUKERSHTETM, O.Ye.; KUPSIK, B.M.

Some variants in the hemopoietic system in diphyllobothriasis.
Probl.gomat. i perel.krovi 4 no.7:49-52 Jl '59.

(HIRA 12:10)

1. Iz I Leningradekogo meditsinskogo instituta imeni akad.
I.P.Pavlova.

(TAPEMCHM INFECTION, compl.

diphyllobothriasis causing anemia (Rus))

(ANEMIA, etiol. & pathogen.

diphyllobothriasis (Rus))

POLYAK, A.B.; TATEVOSYAN, Ye.L.; KUPTSAN, N.A.; MEOS, A.I.

Changes in the conformation of cell-lose links occurring during mercerization and pre-riping. Khim. volok. no.4:38-41 164.

(MIRA 18:4)

- 1. Losotekhnicheskaya akademiya im. S.M.Kirova (for Polyak).
- 2. Leningradskiy filial Vsesoyuznogo nauchno-issledovatel skogo instituta iskusstvennogo volokna (for Tatevosyan, Kuptsan).
- 3. Leningradskiy institut tekstil noy i legkoy promyshlennosti im. S.M.Kirova (for Meos).

TATEVOSYAN, Ye.L.; MAKAROVA, T.P.; KUPTSAN, N.A.; MEOS, A.I.

Effect of the conditions of the continuous basic treatment of cellulose on the rate of its oxidative degradation. Khim. volck. no.6:33-36 '64. (MIRA 18:1)

1. Leningradskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Tatevosyan, Makarova, Kuptsan).
2. Leningradskiy tekstil'nyy institut imeni Kirova (for Meos).

KHUNDANOV, L.Ye.; SHKURKO, Ye.D.; KUPTSEVICH, I.Ye.; SMIENOVA, L.A.

Combined treatment of experimental plague using antibiotics and gamma globulin. Antibiotiki 6 no.11:1039-1042 N '61.

(MIRA 15:3)

1. Irkutskiy nauchno-issledovatel'skiy protivochumnyy institut Sibiri i Dal'nego Vostoka.

(GAMMA GLOBULIN)

(AMTIBIOTICS)

(PLAGUE)